



# NR9581(A)

H.265 2U 32-CH NVR

H.265 • VAST 2 Inside • 32 Channel • 8x HDD • ONVIF • Dual LAN • Fisheye Dewarp • Local Display • RAID • Redundant Power

- H.265/H.264 Compression Technology
- 32-CH Recording, 32-CH Display
- 8 Hot-Swappable HDD Bays
- Support RAID 0/1/5/6/10 Storage
- Redundant Power
- Dual Lan Giga Network Ports
- VIVOTEK VAST 2 Inside
- Smart Search II: Powerful Search for Smart Motion Detection
- Smart VCA: AI Powered Video Analytics
- Cybersecurity Management Solution
- Multiple Fisheye Dewarp Support
- 2.5D Visualization eMap
- License Plate Recognition Solution



# Technical Specifications

## Device

Model	NR9581(A)
OS	Embedded Windows 10
Watchdog	Hardware + Software
Power Restoration	System Restart Automatically after Power Recovery

## Local Display

LiveView Display	32 Channels Equal: 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8 Panorama: 1P+6, 2P, 2P+3, 3P Focus: 1+12, 1+16, 1+3, 1+5, 1+7, 1+9, 2+8 Vertical: 1V+6, 2V+2, 2V+3, 3V, 3V+4, 4V, 4V+4, 5V Single layout display, full screen display, custom layout, layout rotation
Video Output	HDMI x1, Display Port x1, VGA x1, DVI x1
Display Resolution	HDMI: 3200x2000 DP: 3200x2000 VGA/DVI: 1920x1200
Dual Monitor	Supported
Camera Position	Change the viewcell position on the Live View screens
Stream Application	Stream Selection & Auto Stream Size
Monitor Enhancement	E-Map Embedded, Drag & Drop, Remote I/O Control, PiP (Digital Zoom), Instant Playback, Video Display Mode (Aspect Ratio & Camera Information), Metadata Display (VCA, POS and Data Magnet)
Fisheye Dewarp	10, 1P, 1R, 103R, 4R, 2P, 4R Pro, 108R and Fisheye Auto-Pan
PTZ/ePTZ Operation	Direction Control, Home, Zoom, Focus, Isis, Preset, Patrol (Group), Tracking, Pan, Stop, Speed, Wiper Blade Control

## Video

Video Format	MJPEG, MPEG4, H.264 AVC, H.264 SVC, H.265
Graphic Decoder	Software decoding
Decoding Resolution	Up to 8192x8192
Decoding Capability	H.264: 1920x1080 @ 300 fps H.265: 1920x1080 @ 150 fps

## Audio

Audio Format	G.711, G.726, AMR, AAC
Audio In/Out	Microphone audio jack Input x1 3.5 Line input audio jack x1 3.5 Line output audio jack x1
2-way Audio	Supported

## Record

Recording Time (sec.)	Pre-Record: 3-15 Post-Record: 10-60
Recording Stream	Single
Recording Throughput	512 Mbps
Recording Mode	Continuous, Event, Customized Schedule, Activity Adaptive Streaming
Recording Setting	Recycling time depends on the remaining storage space or the set number of days
Seamless Recording	Supported

## Storage & Backup

HDD Devices	Hot-Swappable Tray x8 *HDD is purchased by separately.
HDD Max. Capacity	*Please refer to the HDD supported list on the VIVOTEK website.
RAID	RAID 0, 1, 5, 6, 10
Disk Management	Create, format and remove disk
Video Clip Export	USB Dongle (FAT Format) NAS (SMB & CIFS)
Schedule Backup	NAS (SMB & CIFS)

## Playback

Playback Display	32 Channels (the max. number of monitors supported depends on the decoding capability of your system) Equal: 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8 Panorama: 1P+6, 2P, 2P+3, 3P Focus: 1+12, 1+16, 1+3, 1+5, 1+7, 1+9, 2+8 Vertical: 1V+6, 2V+2, 2V+3, 3V, 3V+4, 4V, 4V+4, 5V Single layout display, full screen display, custom layout, layout rotation
Playback Control	Play, rewind, pause, stop, next/previous video start, next/previous frame, 1/8X ~ 64X speed control, bookmark
Video Search	Calendar, Event, Alarm, Bookmark, Thumbnail, Smart Search II, Transaction (POS), Data Magnet, Log
Snapshot	BMP & JPEG
Video Clip Export	3GP & EXE

## Network

Ethernet	10/100/1000Mbps Ethernet (RJ-45) x2
Video Throughput for Remote Client	400 Mbps
Protocols	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter

## Alarm Management

Alarm Period (sec.)	Max. 30
Alarm Filter	Time, Trigger Type (Camera/Substation/System), Status, Name, Trigger Source
Alarm Setting	Realtime System Notification Alarm Result Display by List or Thumbnail
Schedule Type	Continuous, schedule, manual
Camera Event	General: Motion detection, Camera DI, Camera DO, IR (Infrared), PIR (Passive infrared), Tampering detection, Temperature, Camera disconnected, Recording error, Stop recording, Video loss (Video server only), SD card life expectancy detection, Audio detection, Shock detection Smart VCA: Line crossing detection, Intrusion detection, Loitering detection, Face detection, Missing object detection, Unattended object detection, Crowd detection, Running Detection Trend Micro IoT Security: Brute force attack, Cyberattack, Quarantine event
Substation	NV Series NVR: Abnormal G-sensor Motion, Speeding, GPS Disconnected ND Series NVR: Fan Status, Network Disconnected, Storage Failure, Storage Full, Number of remaining people, Brute force attack, Cyberattack, Quarantine event NR Series NVR: Network Disconnected, Storage Failure, Storage Full
External Devices Event	DI/O (with I/O Box), TCP Message
Action	Start to record videos, Set DO status, Go to camera presets, Send HTTP requests, Send live streaming, Send email with snapshot of assigned camera(s), Go to E-Map, Sound the alarm and Add bookmark
Alarm State for Management	New, In Progress, False Alarm and Close
Alarm Result Export	.csv File

## eMap

Source	Import picture & folder
Device	Camera, external DI/O
Marked	Add, remove, direction control, PTZ control, FOV control, live view & playback
Event Notification	One or More Live Streaming

## External Interface

USB	USB 2.0 x4 USB 3.0 x2
Audio	Microphone audio jack Input x1 3.5 Line input audio jack x1 3.5 Line output audio jack x1

## System

POS Integration	Supported
UPS Integration	Supported
Camera Integration	ONVIF Profile S

I/O Box Integration	Advantech ADAM-6000 Series CHIYU CYT-133SC MOXA ioLogik E1210, E1211 and E1212
User Management	Authentication: Basic Account / Windows AD Account User Account: 1024 User Level: Administrator / Customized User
Log	Operation, system and event log
Date & Time	Sync server
<b>Advanced Features</b>	
VCA Counting Solution	Supported
LPR Solution	Supported
VCA Event Search	Smart VCA
Smart Search	Smart Search I & Smart Search II
Cybersecurity Management	Supported
<b>Remote Client</b>	
Software AP	Shepherd, VAST 2
Mobile/Tablet App	iViewer (iOS/Android)
Web Browser	Internet Explorer 9 (32 bit) or above
<b>General</b>	
Power Input	Redundant power 100~220V AC
Power Consumption	Max. 740 W
Redundant Power	Supported
80 Plus Certified	Platinum
Dimensions	89 (H) x 437 (W) x 648 (D) mm
Weight	27 kg (without HDD)
Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)
Humidity	0 ~ 95%
Safety Certifications	CE, LVD, FCC, VCCI, C-Tick, UL
Warranty	36 months

## Dimensions

